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Office Memorandum • UNITED STATES GOVERNMENT

TO : The Files - Contract 602, Task Order 3

DATE: 30 October 1959

FROM :

SUBJECT: Trip Report - TP-3 Motor Development with

1. On 23 October 1959 the writer visited the [redacted] to discuss the development of the governed speed, 12 volt DC motor. [redacted] represented the company.

2. Background: In April 1959 it became apparent that the TP-3 motor being procured through [redacted], from [redacted] could not meet the speed accuracy over the voltage and temperature range specified. Due to an urgent need for the TP-3 printers the [redacted] was used and a manual control was added to compensate for the speed drift. The continuing need for a stable DC motor led to R+D project 2672 and task order 3, Contract 602. The task order was written in the amount of \$3,158.00 to cover a three-month period beginning 19 May 1959. Deliverable items are one engineering model of the motor and a final engineering report with engineering drawings. Time extensions were granted through 31 October 1959.

3. The engineering model was enroute to the Agency during this visit. However, a copy of the final report had been retained for my examination. The test data supplied in this report shows that the design goal of 2% regulation over the temperature range of -10°C to +40°C has been achieved. The engineering model has been forwarded to the Laboratory for verification of these findings. Further refinement of design would be necessary to minimize a very strong magnetic cogging of the armature. Increasing the skew of the slotted armature laminations would be expected to minimize this action. Additional effort on this project will be determined by the Laboratory analysis of this first model.

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